

CLAIMS

What is claimed is:

1	1.	A method for sending secure messages in a broadcast network
2	C	omprising the steps of:
3		encrypting data with a key;
4		hashing said key;
5		combining said encrypted data and said key in a broadcast
6		message; and
7		transmitting said broadcast message to a plurality of receiving
8		nodes.
1	2.	The method of claim 1 wherein the key is a plurality of different keys
2	а	nd said steps of combining and transmitting comprises:
3		combining said encrypted data with each one of said plurality of
4		different keys in a plurality of broadcast messages; and
5		transmitting one of the plurality of broadcast messages to a
6		subset of said plurality of receiving nodes.
1	3.	The method of claim 2 wherein each one of said plurality of different
2		eys are associated with a category.





1 2	4.	A method for decrypting a message received over a broadcast network comprising the steps of:
3 4 5		receiving data comprising an encrypted message and a hashed key at a node in said broadcast network, wherein said node comprises means for storing data;
6 7		parsing said data to derive said encrypted message and said hashed key;
8 9 10		comparing said received hashed key with a plurality of keys stored in said means for storing data in said node and to select a key matching said received hashed key; and
11 12		decrypting said encrypted message with said matching key if a match was found.
1 2	5.	The method of claim 4 further comprising the step of requesting a key from a network entity.
1 2	6.	In a communications network having a plurality of network entities, a first one of the network entities comprising:
3		a means encrypting data with a key;
4		a means for hashing said key;
5 6		a means for combining said encrypted data and said key in a broadcast message; and
7 8		a means for transmitting said broadcast message to a plurality of receiving nodes.
1	7.	The network entity of claim 5 further comprising a means for distributing hashed keys.



1	8.	A computer-readable memory for directing a computer to function in a
2		particular manner when used by the computer, comprising:
3		a first portion to direct the computer to encrypt data with a key;
4		a second portion to direct computer to hash said key;
5		a third portion to direct computer to combine said encrypted data
6		with said key in a broadcast message; and
7		a fourth portion to direct computer to provide multiple
8		transmissions of said message.
1	9.	A computer-readable memory for directing a computer to function in a
2		particular manner when used by the computer, comprising:
3		a first portion to direct the computer to receive data comprising an
4		encrypted message and a hashed key;
5		a second portion to direct computer to parse said data;
6		a third portion to direct computer to compare said received
7		hashed key with a plurality of keys and to select a key matching said
8		received hashed key; and
9		a fourth portion to direct computer decrypt said encrypted
10		message with said matching key if a match was found and send
11		request for key to a network entity if no matching key was found.



2	encrypted message, a hashed key and instructions for:
3 4	parsing said data to derive said encrypted message and said hashed key;
5 6 7	comparing said received hashed key with a plurality of keys stored in said means for storing data in said node to select a key matching said received hashed key; and
8 9 10	decrypting said encrypted message with said matching key if a match was found and sending request for key to a network entity if no matching key was found.
1 2	11. A computer program product that enables a network entity distribute secure content in a network comprising:
3	computer readable code that instructs computer to:
4	encrypt data with a key;
5	hash said key;
6 7	combine said encrypted data and said key in a broadcast message;
8	transmit multiple transmissions of said broadcast message.
9	and
10	a tangible medium that stores the computer readable code.
1 2 3	12. The computer product of claim 11 wherein the tangible medium is selected from a group consisting of hard-disk, CD-ROM, DVD, floppy disk flash memory and the like.
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